

Practical Fermentation Technology

Objective

To enhance the knowledge of the students as well as technical level employees working in companies/institutes which are practicing fermentation technology. To impart practical skills that would enable them to take knowledge based approach in operation and maintenance of fermenters and bioreactors. For students the course would enable them to excel in careers related to bioprocess and fermentation industries.



CSIR Integrated Skill Initiative

Schedule:

- **Offline program:**
1st-15th Feb, 2022
- **No. of seats-**
- 10 (max)
- **Course Fee-**
Rs. 10000/- for regular
& Rs.15000/- for
sponsored candidates

Topics

- Microbial growth kinetics
- Basic anatomy of a classical STR, parts identification and purpose
- Fermenter Instrumentation- Components of fermenter their roles and control, PID's and SCADA
- Concepts of mass and oxygen transfer, Cascade control in fermenters
- Practical session(s) on:
 - i. Parallel fermenter
 - ii. 2L STR
 - iii. 20L STR with in-situ sterilization
 - iv. 150 L Fermenter

Job Opportunities

- Any fermentation industries such as biopharma, biotech industries.
- Production managers in Biotech industries
- STR(s) and Fermenter manufacturer(s) industries

Eligibility

Diploma in Chemical /Mechanical Engineering,
B.Sc. In any Biological Sciences/B.Tech in Biotechnology, Biochemical /Chemical Engineering
M.Sc in any Biological Sciences/M Tech in Biotechnology, Biochemical /Chemical Engineering



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